firmware which do not execute their programming instructions due to such defects. HP does not warrant that the operation of the software, firmware, or hardware shall be uninterrupted or error free.

If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, Buyer shall be entitled to a refund of the purchase upon return to HP.

## Limitation of Warranty

The foregoing warranty shall not apply to defects resulting from:

1. Improper or inadequate maintenance by Buyer,
2. Buyer-supplied interfacing,
3. Unauthorized modification or misuse,
4. Operation outside of the environmental specifications for the product, or
5. Improper site preparation and maintenance.

THE WARRANTY SET FORTH ABOVE IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED. HP SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**CAUTION**

Use of accessories other than those recommended by Hewlett-Packard may compromise product performance.

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## Safety Summary

### Safety Symbols Marked on the Defibrillator

The following symbols are used on the defibrillator.


On (Do not confuse with 1 Joule)

Off (Standby)

On/Off

Ground

Shock hazard

Caution - See operating instructions

Meets IEC type BF leakage current requirements and is defibrillator protected.

Meets IEC type CF leakage current requirements and is defibrillator protected.

Equipotential (rear of unit, adjacent to AC input)

Protective earth (ground)

Please see Chapter 3, **Performance Verification and Maintenance**, for safety requirements that apply to the defibrillator.

## Conventions Used in This Manual

**WARNING**

**Warning statements describe conditions or actions that can result in personal injury or loss of life.**

**CAUTION**

Caution statements describe conditions or actions that can result in damage to the equipment or software.

**NOTE**

Notes contain additional information on defibrillator usage.

TEXT represents the messages that appear on the display.

(key) represents keys on the front panel.

(LIGHT) represents lighted indicators on the key panel.

# Preface

This manual contains service information for the Hewlett-Packard CodeMaster XL+ and XL Defibrillator/Monitor. The information and procedures in this manual apply to both models unless otherwise specified.

This manual is organized as follows:

**Chapter 1—Introduction.** Contains a general description of the defibrillators, lists of technical specifications, and lists of options and accessories.

**Chapter 2—Installation and Configuration.** Summarizes the defibrillator installation and explains how to configure the defibrillator for specific customer requirements.

**Chapter 3—Performance Verification and Maintenance.** Explains how to check the defibrillator's performance using built-in tests, and lists maintenance procedures and safety requirements that apply to the defibrillator.

**Chapter 4—Theory of Operation.** Provides an overview of how the defibrillator works and describes the operation of the major subassemblies.

**Chapter 5—Troubleshooting.** Contains procedures and error codes to aid the service person in localizing faults to a replaceable subassembly.

**Chapter 6—Removal and Replacement.** Contains procedures for removing and replacing each of the defibrillator's major subassemblies.

**Chapter 7—Parts Lists.** Lists part numbers for the defibrillator's replaceable parts, and provides assembly drawings.

**Appendix A—Connector Pin Assignments.** Identifies and defines the signals assigned to the subassembly interconnections.

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